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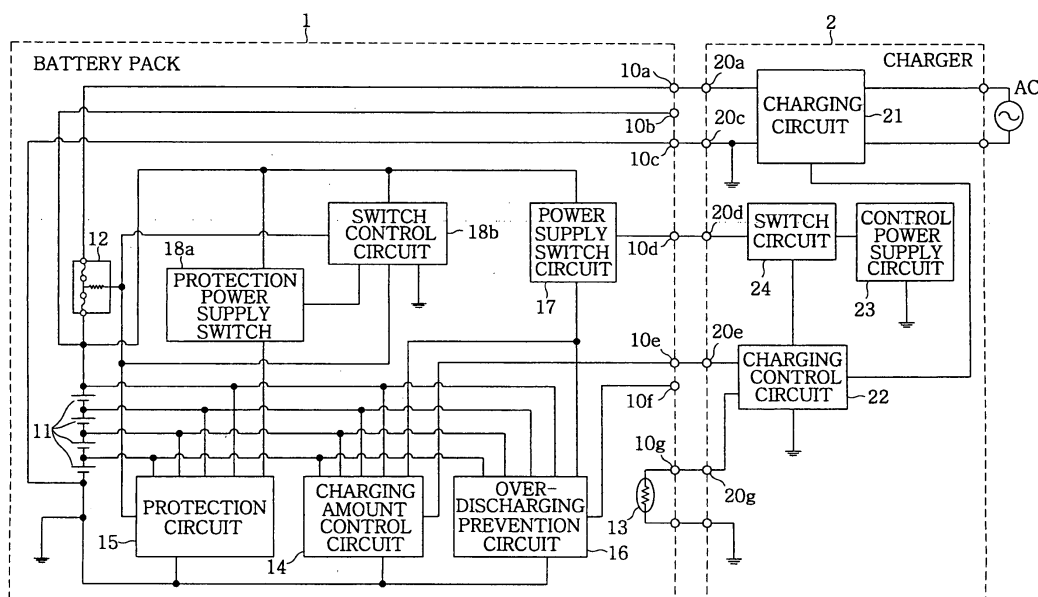
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(54) **Charging controller**

(57) A charging controller connected to at least one of secondary cells (11) and detachably connected to a charger (2) or a cell driver, the charging controller including: a charging amount control circuit (14) detecting a cell voltage of each secondary cell and outputting a charging control signal for instructing the charger to reduce a charging current when the detected cell voltage exceeds the target voltage; and a protection circuit (15)

detecting a cell voltage of each secondary cell and cutting off a current path from the charger to the secondary cell when the detected cell voltage exceeds the upper limit voltage, the protection circuit operating by using the secondary cell as a power source while at least the charger is not connected. In the charging controller, while neither the charger nor the cell driver are connected, the charging amount control circuit does not operate.

FIG. 1





EUROPEAN SEARCH REPORT

Application Number
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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
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			TECHNICAL FIELDS SEARCHED (IPC)
			H02J
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 21 June 2013	Examiner Schmidt, Rainer
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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21-06-2013

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